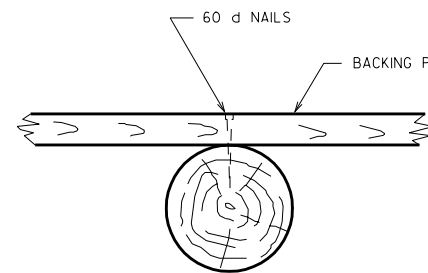
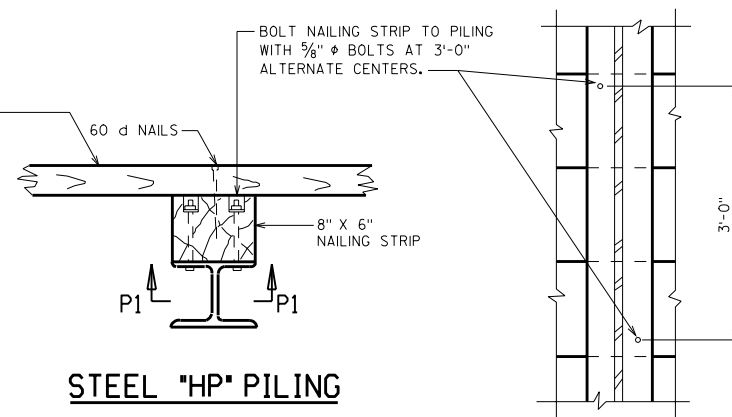


**CONCRETE
CAST-IN-PLACE PILING**

REFER TO STANDARD 11.1 FOR SECTION
THRU REINFORCED CAST-IN-PLACE PILING
WHEN PILES ARE EXPOSED.

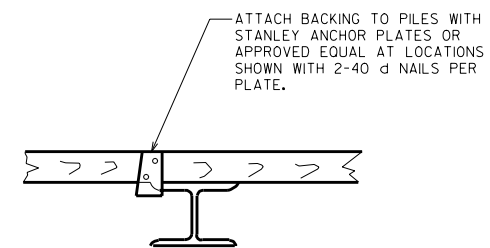


TIMBER PILING



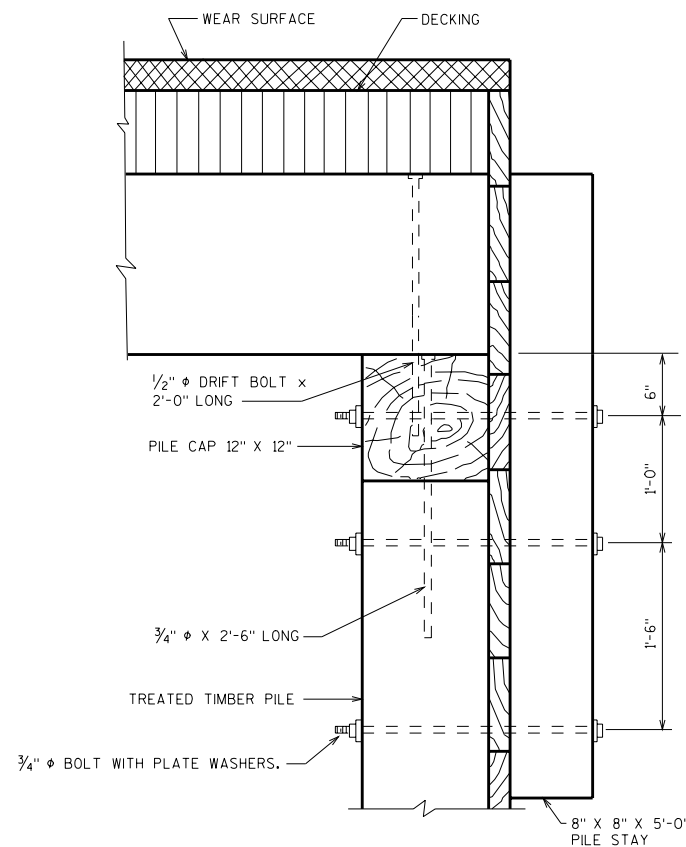
STEEL 'HP' PILING

SECTION P1

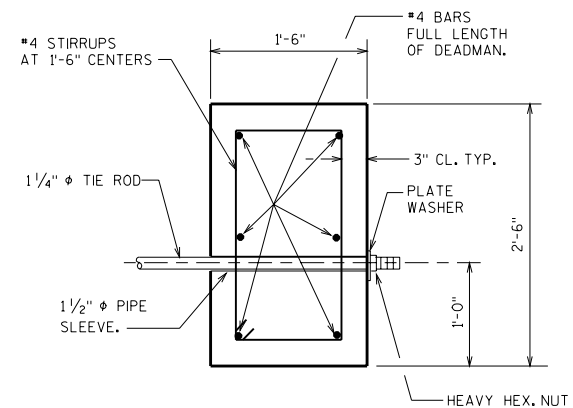


**STEEL 'HP' PILING
(ALTERNATE ATTACHMENT)**

BODY & WING PLANK CONNECTION DETAILS



**PILE CAP DETAIL
(TIMBER GIRDER)**



SECTION THRU DEADMAN

**TIMBER ABUTMENT
DETAILS**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DEVELOPMENT SECTION

APPROVED: _____

DATE:
1/99